

King County DNRP Water Quality Index

STATION **BB470** WATER YEAR **2008**

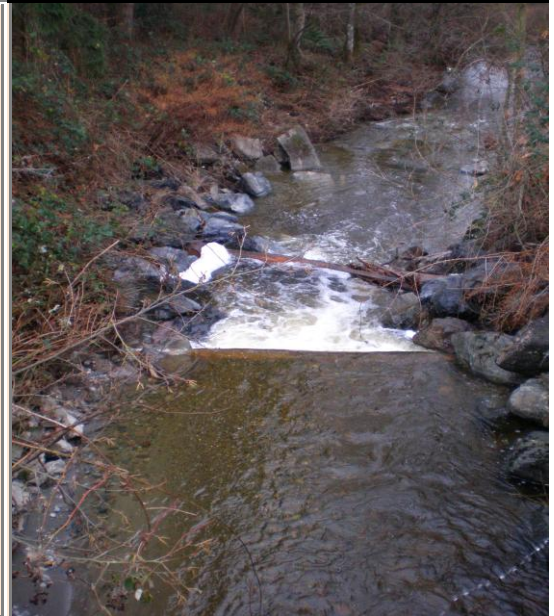
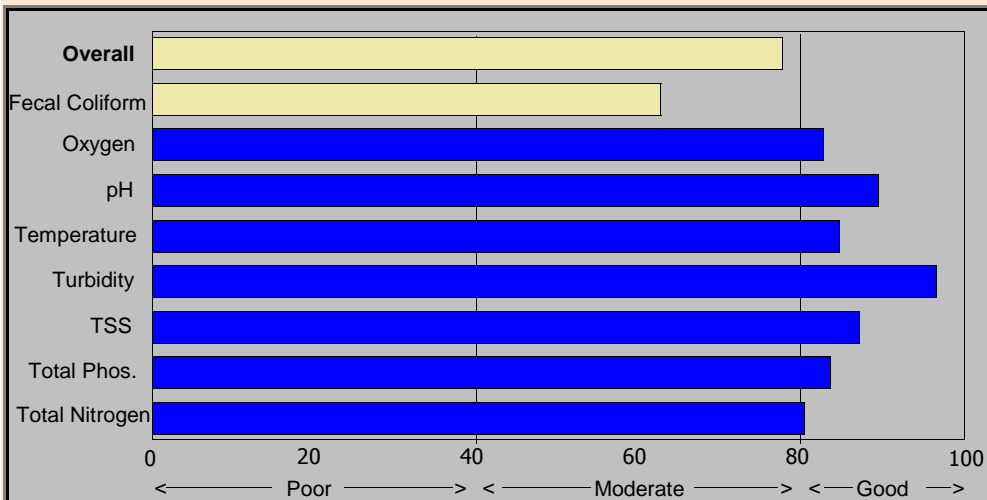
GAUGE # 56d Swamp Creek at Carter Rd

Overall Index 78

King County has monitored water quality in Swamp Creek at two locations. Station BB470 is located at Carter Road and was monitored from 1999 to 2008 when budget cutbacks reduced the breadth of King County's water quality monitoring program. The Swamp Creek basin encompasses 15,000 acres and includes portions of the communities of Lynnwood, Everett, Bothell, and Kenmore. The creek originates in the Paine Field and West Casino area of South Everett and flows 10.9 miles before draining into the Sammamish River just upstream of its outlet to Lake Washington. The watershed is heavily urbanized with 52% of the watershed area covered by impervious surface compared to just 19% forested. This increased urbanization has resulted in greater intensity and duration peak flows and diminished summer flows. Consequently, over-widening of the stream channel, heavy bank erosion, and stream bed scour has left salmon habitat degraded throughout much of the basin. Swamp Creek is listed as high

Annual Water Quality Index Scores

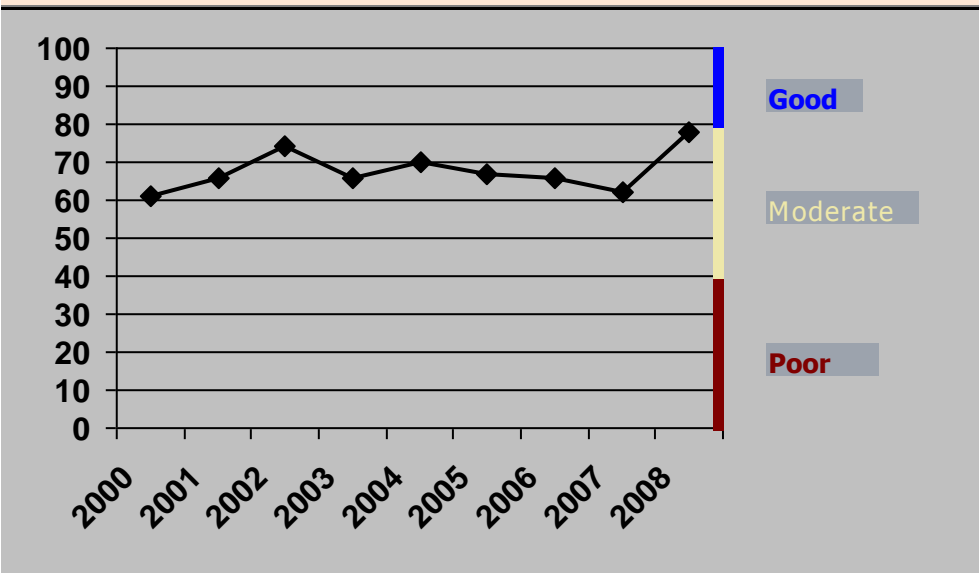
Water quality was MODERATE based on data collected 10/1/2007 to 9/30/2008.



Monthly Scores For Water Year 2008

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
68	94	89	87	96	91	90	85	81	90	92	89

WQI Score Comparison By Water Year



About The Water Quality Index:

The Water Quality Index (WQI) score is a unit-less number ranging from 10 to 100: the higher the number, the higher the water quality. Scores are calculated from data collected during the monthly routine sampling. For temperature, pH, fecal coliform bacteria, turbidity, and dissolved oxygen, the index expresses results relative to levels required to maintain beneficial uses according to criteria in Washington's Water Quality Standards, WAC 173-201A. For nutrient and sediment measures where there are no standard, results are expressed relative to guidelines for this eco-region. Results from the eight parameters are aggregated over time to produce a single score for each sample station. In general, stations scoring 80 and above did not fail water quality standards or guidelines and are of "low concern", scores 40 to 80 indicate "moderate concern", and water quality at stations with scores below 40 are of "high concern". For more information about the WQI please visit <http://green.kingcounty.gov/WLR/Waterres/StreamsData/WQI.aspx>

For more information about this creek please visit our website at <http://green.kingcounty.gov/WLR/Waterres/StreamsData/streamlist.aspx>